

## Limits: Analytically and Graphically

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each limit.**

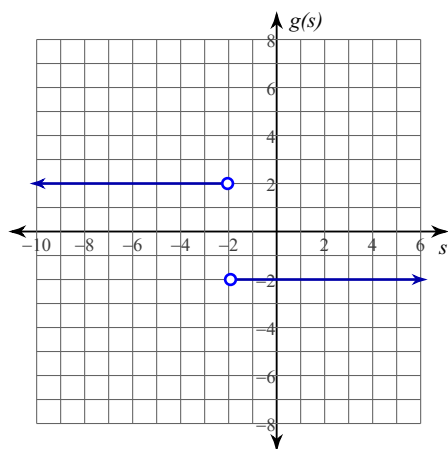
1)  $\lim_{w \rightarrow -1^-} -|w + 1|$

2)  $\lim_{t \rightarrow -2^+} \frac{5|t + 2|}{t + 2}$

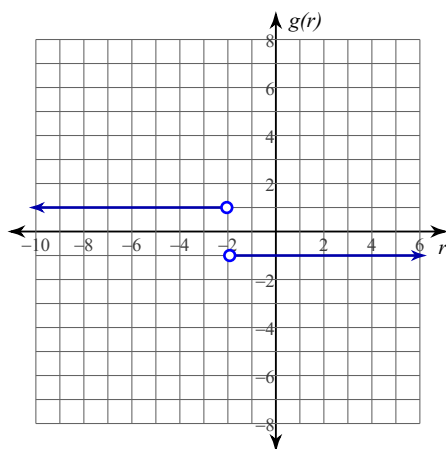
3)  $\lim_{t \rightarrow 2} h(t), h(t) = \begin{cases} t - 1, & t < 2 \\ t^2 - 4t + 5, & t \geq 2 \end{cases}$

4)  $\lim_{r \rightarrow -1^-} \left( \frac{2e^{\frac{1}{r+1}}}{e^{\frac{1}{r+1}} + 1} - 1 \right)$

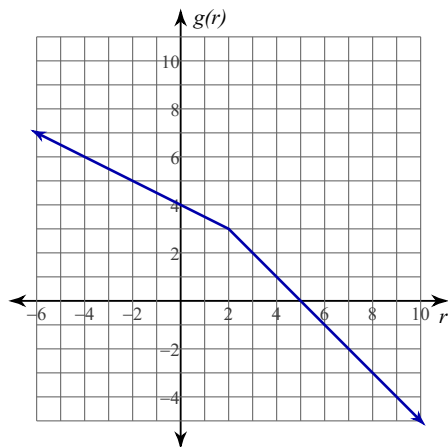
$$5) \lim_{s \rightarrow -2^+} \frac{-2s - 4}{|-s - 2|}$$



$$6) \lim_{r \rightarrow -2} \frac{-r - 2}{|-r - 2|}$$



$$7) \lim_{r \rightarrow 2} g(r), g(r) = \begin{cases} -\frac{r}{2} + 4, & r \leq 2 \\ -r + 5, & r > 2 \end{cases}$$



$$8) \lim_{r \rightarrow 0} f(r), f(r) = \begin{cases} \frac{r}{2} - \frac{9}{2}, & r \leq 0 \\ -2r + 3, & r > 0 \end{cases}$$

